GenCore version 5.1.3

OM protein - protein search, using sw model

Run on: January 16, 2003, 16:34:37 ; Search time 23.7857 Seconds
(without alignments)
28.011 Million cell updates/sec

Title: US-09-856-070-18
Perfect score: 24
Sequence: 1 KEELM 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_101002:*
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22: /SIDS2/gcgdata/geneseq/geneseqp-embl/AA2001.DAT:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	24	100.0	5	22	AAB82036	Human hepreceptor
2	24	100.0	8	22	AAU68025	Human Breast cance
3	24	100.0	13	22	AAB82037	Human hepreceptor
4	24	100.0	29	22	ABB31539	Peptide #4190 enco
5	24	100.0	29	22	ABB36756	Peptide #4262 enco
6	24	100.0	29	22	ABH22083	Protein #4082 enco
7	24	100.0	29	22	AAM57583	Human brain expres
8	24	100.0	29	22	AAM69987	Human bone marrow
9	24	100.0	29	22	AAM17730	Peptide #4164 enco
10	24	100.0	29	22	AAM30245	Peptide #4282 enco
11	24	100.0	29	22	AAM05392	Peptide #4074 enco
12	24	100.0	29	23	ABG39536	Human peptide enco
13	24	100.0	34	22	AAB82020	Human hepreceptor
14	24	100.0	52	22	AAU33060	Novel human secret
15	24	100.0	56	21	AAG60550	Arabidopsis thalia
16	24	100.0	59	20	AAY74237	Human prostate tum
17	24	100.0	63	21	AAG60549	Arabidopsis thalia
18	24	100.0	68	22	AAU21878	Human cardiovascul
19	24	100.0	84	20	AAW89863	Antigen 2 from cl
20	24	100.0	104	21	AAB01796	Soybean Mlo homolo
21	24	100.0	106	22	AAQ01456	Human polypeptide
22	24	100.0	109	23	ABP08192	Human ORFX protein
23	24	100.0	117	20	AAY37523	Amino acid sequenc
24	24	100.0	121	23	ABB49483	Listeria monocytog
25	24	100.0	160	21	AAG59750	Arabidopsis thalia
26	24	100.0	164	21	AAG59749	Arabidopsis thalia
27	24	100.0	164	22	AAU35818	Helicobacter pylor
28	24	100.0	164	22	AAU35980	Helicobacter pylor
29	24	100.0	165	21	AAG03876	Human secreted pro
30	24	100.0	165	22	AAM40267	Human polypeptide
31	24	100.0	166	21	AAG59748	Arabidopsis thalia
32	24	100.0	168	13	AAR24252	Vaccinia virus Sal
33	24	100.0	170	17	AAR98756	Murine NEDD-2 prot
34	24	100.0	170	17	AAW00981	Murine NEDD-2 prot
35	24	100.0	171	15	AAR45264	Murine NEDD-2. Mu
36	24	100.0	171	15	AAR45273	Murine NEDD-2 muta
37	24	100.0	171	15	AAR45274	Murine NEDD-2 muta
38	24	100.0	171	15	AAR45275	Murine NEDD-2 muta
39	24	100.0	171	21	AAR14251	Mouse nedd-2 prote
40	24	100.0	188	22	AAM42053	Human polypeptide
41	24	100.0	211	21	AAG11264	Arabidopsis thalia
42	24	100.0	222	21	AAG57892	Arabidopsis thalia
43	24	100.0	222	21	AAG61044	Arabidopsis thalia
44	24	100.0	222	21	AAG61059	Arabidopsis thalia
45	24	100.0	230	21	AAG11263	Arabidopsis thalia

ALIGNMENTS

RESULT 1
AAB82036
ID AAB82036 standard; peptide; 5 AA.
XX
AC AAB82036;
XX
DT 14-JUN-2001 (first entry)
XX
DE Human hepreceptor domain A binding peptide Rupe2024.
XX
KW Human, hepreceptor, cytostatic, anti-HIV, antibiotic,
KW neutropic, immune response inducer, ezrin, infectious diseases, cancer;
KW HIV related dementia.
XX
OS Homo sapiens.
XX
PN GB2354241-A.
XX
PD 21-MAR-2001.
XX
PF 17-SEP-1999; 99GB-0021881.
XX
PR 17-SEP-1999; 99GB-0021881.
XX
PA (HOLM/) HOLMS R D.
XX
PI Holms RD,
XX
DR WPI, 2001-293287/31.
XX
PT Novel regulatory or unfolding peptides of ezrin that binds to
PT Hepreceptor, useful for inducing immune response for treating
PT infectious diseases and cancer -

```
XX
PS   Claim 21; Page 36; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAB82019).
XX
SQ   Sequence   5 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 5;
  Best Local Similarity   100.0%;  Pred. No. 7.8e+05;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       1 KEELM 5


RESULT 2
AAU68025
ID   AAU68025 standard; Peptide; 8 AA.
XX
AC   AAU68025;
XX
DT   16-JAN-2002  (first entry)
XX
DE   Human Breast cancer-associated protein isoform, BPI-1 peptide #3.
XX
KW   Human; Breast cancer-associated protein isoform; breast cancer;
KW   immunogen; cytostatic; BPI; tryptic digest peptide.
XX
OS   Homo sapiens.
XX
PN   WO200171357-A2.
XX
PD   27-SEP-2001.
XX
PF   20-MAR-2001; 2001WO-GB01219.
XX
PR   20-MAR-2000; 2000GB-0006695.
PR   24-MAR-2000; 2000GB-0007265.
XX
PA   (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
XX
PI   Herath HMAC,  O'Hare MJ,  Page MJ,  Parekh RB,  Waterfield MD;
XX
DR   WPI; 2001-611532/70.
XX
PT   Identifying proteins for clinical screening, diagnosis and prognosis of
PT   breast cancer, comprises detecting Breast Cancer-Associated Protein
PT   isoforms (BPIs) using two-dimensional electrophoresis -
XX
PS   Claim 9; Page 43; 197pp; English.
XX
CC   The invention relates to diagnosing, determining the stage or severity,
CC   or identifying the risk of a subject developing cancer (especially
CC   breast cancer), or monitoring the effect of therapy on a subject with
CC   cancer, comprising analysing a test sample using two-dimensional
CC   electrophoresis and detecting Breast Cancer-Associated Protein
CC   Isoforms (BPIs). The methods disclosed are used for the diagnosis and
CC   prognosis of breast cancer, for determining the severity of breast
CC   cancer, and for identifying a subject at risk of developing breast
CC   cancer, and monitoring the effect of therapy administered to a subject.
CC   Antibodies raised against the binding domain of a BPI, the binding domain
CC   of a BPI, a nucleic acid encoding a BPI, or a nucleic acid that inhibits
CC   the function of a BPI can be incorporated into a pharmaceutical
CC   composition for treating or preventing breast cancer. The methods use
CC   sensitive and specific biomarkers provide early diagnosis of breast
CC   cancer, and the compositions are more potent, specific, and has a more
CC   rapid effect with fewer side effects that other prior art methods.
CC   The present sequence is a tryptic digest peptide from a BPI of the
CC   invention.
XX
SQ   Sequence   8 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 8;
  Best Local Similarity   100.0%;  Pred. No. 7.8e+05;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       2 KEELM 6


RESULT 3
AAB82037
ID   AAB82037 standard; peptide; 13 AA.
XX
AC   AAB82037;
XX
DT   13-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain A binding peptide SUPE2042.
XX
KW   Human; hepreceptor; cytostatic; anti-HIV; antibiotic;
KW   nootropic; immune response inducer; ezrin; infectious diseases; cancer;
KW   HIV-related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   11
FT                   /note= "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001-293287/31.
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer -
XX
PS   Claim 22; Page 36; 42pp; English.
XX
CC   The hepreceptor is a novel active site in human ezrin. Ezrin regulates
CC   the structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present peptide binds to domain A of the
CC   hepreceptor (AAB82019).
XX
SQ   Sequence   13 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 13;
  Best Local Similarity   100.0%;  Pred. No. 47;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
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```

```
Db      1 KEELM 5


RESULT 4
ABB31539
ID   ABB31539 standard; Peptide; 29 AA.
XX
AC   ABB31539;
XX
DT   01-FEB-2002  (first entry)
XX
DE   Peptide #4190 encoded by breast cell single exon nucleic acid probe.
XX
KW   Human; microarray, single exon probe, gene expression; breast;
KW   disease; cancer.
XX
OS   Homo sapiens
XX
PN   WO200157271-A2.
XX
PD   09-AUG-2001
XX
PF   30-JAN-2001; 2001WO-US00662
XX
PR   04-FEB-2000; 2000US-0180412
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408
PR   03-AUG-2000; 2000US-0632366
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-496933/54.
XX
PT   New spatially addressable set of single exon nucleic acid probes,
PT   useful for measuring gene expression in sample derived from human
PT   breast, comprises number of single exon nucleic acid probes -
XX
PS   Claim 27; SEQ ID NO 14507; 327pp + sequence listing; English.
XX
CC   The invention relates to a spatially addressable set of single exon
CC   nucleic acid probes for measuring gene expression in a sample derived
CC   from human breast and BT 474 cells. The method involves contacting
CC   the probes with a collection of detectably labelled nucleic acids
CC   derived from mRNA of human breast, and then measuring the label
CC   bound to each probe of the microarray. The probes are useful for
CC   verifying the expression of regions of genomic DNA predicted to
CC   encode proteins. They are useful for gene discovery, and for
CC   determining predisposition and/or prognosing breast disease. Gene
CC   expression analysis is useful for assessing the toxicity of chemical
CC   agents on cells. The microarray of this invention presents a far greater
CC   diversity of probes for measuring gene expression, with far less bias
CC   than expressed sequence tag microarrays. The method is suitable for
CC   rapid production of functional information from genomic sequence. The
CC   present sequence is a peptide encoded by a single exon nucleic acid
CC   probe of the invention.
CC   Note: The sequence data for this patent did not form part of the
CC   printed specification, but was obtained in electronic format directly
CC   from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   29 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 KEELM 5
          |||||
Db      8 KEELM 12


RESULT 5
ABB36756
ID   ABB36756 standard; Peptide; 29 AA.
XX
AC   ABB36756;
XX
DT   04-FEB-2002  (first entry)
XX
DE   Peptide #4262 encoded by human foetal liver single exon probe.
XX
KW   Human, foetal liver, gene expression, single exon nucleic acid probe.
XX
OS   Homo sapiens.
XX
PN   WO200157277-A2.
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00669.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-483447/52.
XX
PT   Human genome derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human fetal liver -
XX
PS   Claim 27; SEQ ID NO 29391; 639pp + sequence listing; English.
XX
CC   The invention relates to a single exon nucleic acid probe for
CC   measuring human gene expression in a sample derived from human foetal
CC   liver. The single exon nucleic acid probes may be used for predicting,
CC   measuring and displaying gene expression in samples derived from human
CC   fetal liver. The present sequence is a peptide encoded by a single exon
CC   nucleic acid probe of the invention.
CC   Note: The sequence data for this patent did not form part of the
CC   printed specification, but was obtained in electronic format directly
CC   from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   29 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 KEELM 5
          |||||
Db      8 KEELM 12


RESULT 6
ABB22083
ID   ABB22083 standard; Protein; 29 AA.
XX
AC   ABB22083;
XX
DT   23-JAN-2002  (first entry)
XX
DE   Protein #4082 encoded by probe for measuring heart cell gene expression.
XX
KW   Human, gene expression, heart, microarray, vascular system;
```

KW cardiovascular disease; hypertension; cardiac arrhythmia;
KW congenital heart disease.
XX
OS Homo sapiens.
XX
PN WO200157274-A2.
XX
PD 09-AUG-2001
XX
PF 30-JAN-2001; 2001WO-US00666
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236459.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488899/53.
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT hearts -
XX
PS Claim 15; SEQ ID No 23853; 530pp; English.
XX
CC The present invention relates to single exon nucleic acid probes for
CC measuring human gene expression in a sample derived from human heart (see
CC ABA21545-ABA41305) The present sequence is a protein encoded by one such
CC probe. The probes may be used for predicting, measuring and displaying
CC gene expression in samples derived from the human heart via microarrays.
CC By measuring gene expression, the probes are useful for predicting,
CC diagnosing, grading, staging, monitoring and prognosing diseases of the
CC human heart and vascular system e.g. cardiovascular disease,
CC hypertension, cardiac arrhythmias and congenital heart disease.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 29 AA;

Query Match 100.0%; Score 24; DB 22; Length 29;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KEELM 5
|||||
Db 8 KEELM 12

RESULT 7
AAM57503
ID AAM57503 standard; Protein; 29 AA.
XX
AC AAM57503;
XX
DT 05-NOV-2001 (first entry)
XX
DE Human brain expressed single exon probe encoded protein SEQ ID NO: 29608
XX
KW Human; brain expressed exon; gene expression analysis; probe;
KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia,
KW epilepsy; cancer.
XX
OS Homo sapiens
XX
PN WO200157275-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00667.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-488446/52.
XX
PT Single exon nucleic acid probes for analyzing gene expression in human
PT brains -
XX
PS Example 4; SEQ ID NO: 29608; 650pp + Sequence Listing; English.
XX
CC The present invention provides a number of single exon nucleic acid
CC probes which are derived from genomic sequences expressed in the human
CC brain. They can be used to measure gene expression in brain cell samples,
CC which may enable the diagnosis and improved treatment of nervous system
CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
CC epilepsy and cancers. The present sequence is a protein encoded by one of
CC the probes of the invention.
XX
SQ Sequence 29 AA;

Query Match 100.0%; Score 24; DB 22; Length 29;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KEELM 5
|||||
Db 8 KEELM 12

RESULT 8
AAM69907
ID AAM69907 standard; Protein; 29 AA.
XX
AC AAM69907;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human bone marrow expressed probe encoded protein SEQ ID NO: 30213.
XX
KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray; cancer; leukaemia; lymphoma; myeloma.
XX
OS Homo sapiens.
XX
PN WO200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00668.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;

```
XX
DR   WPI; 2001-488900/53.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human bone marrow -
XX
PS   Example 4; SEQ ID NO: 30213; 658pp + Sequence Listing; English.
XX
CC   The present invention provides a number of single exon nucleic acid
CC   probes which are derived from genomic sequences expressed in the human
CC   bone marrow. They can be used to measure gene expression in bone marrow
CC   samples, which may enable the improved diagnosis and treatment of cancers
CC   such as lymphoma, leukaemia and myeloma. The present sequence is a
CC   protein encoded by one of the probes of the invention.
XX
SQ   Sequence   29 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       8 KEELM 12


RESULT 9
AAM17730
ID   AAM17730 standard; Protein; 29 AA.
XX
AC   AAM17730;
XX
DT   12-OCT-2001  (first entry)
XX
DE   Peptide #4164 encoded by probe for measuring cervical gene expression.
XX
KW   Probe; human; microarray; gene expression; cervical epithelial cell;
KW   cervical cancer.
XX
OS   Homo sapiens
XX
PN   WO200157278-A2
XX
PD   09-AUG-2001.
XX
PF   30-JAN-2001; 2001WO-US00670
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488901/53.
XX
PT   Human genome derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human cervical epithelial cells -
XX
PS   Claim 27; SEQ ID No 22556; 487pp; English.
XX
CC   The present invention relates to human single exon nucleic acid probes
CC   (SENP; see AAI10068-AAI28459). The present sequence is a peptide encoded
CC   by one such probe. The SENPs are derived from human HeLa cells. The SENPs
CC   can be used to produce a single exon microarray, which can be used for
CC   measuring human gene expression in a sample derived from human cervical
CC   epithelial cells. By measuring gene expression, the probes are therefore
CC   useful in grading and/or staging of diseases of the cervix, notably
CC   cervical cancer.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   29 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       8 KEELM 12


RESULT 10
AAM30245
ID   AAM30245 standard; Protein; 29 AA.
XX
AC   AAM30245;
XX
DT   17-OCT-2001  (first entry)
XX
DE   Peptide #4282 encoded by probe for measuring placental gene expression.
XX
KW   Probe; microarray; human; placenta; antenatal diagnosis;
KW   genetic disorder.
XX
OS   Homo sapiens.
XX
PN   WO200157272-A2.
XX
PD   09-AUG-2001
XX
PF   30-JAN-2001; 2001WO-US00663.
XX
PR   04-FEB-2000; 2000US-0180312.
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-0234687.
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-488897/53.
XX
PT   Human genome-derived single exon nucleic acid probes useful for
PT   analyzing gene expression in human placenta -
XX
PS   Claim 27; SEQ ID No 30514; 654pp; English.
XX
CC   The present invention relates to single exon nucleic acid probes (SENP;
CC   see AAI31315-AAI57546). The present sequence is a peptide encoded by one
CC   such probe. The probes are useful for producing a microarray for
CC   predicting, measuring and displaying gene expression in samples derived
CC   from human placenta. The probes are useful for antenatal diagnosis of
CC   human genetic disorders.
XX
SQ   Sequence   29 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
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Qy       1 KEELM 5
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Db       8 KEELM 12
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RESULT 11
AAM05392
ID   AAM05392 standard; Protein; 29 AA.
XX
AC   AAM05392;
XX
DT   09-OCT-2001  (first entry)
XX
DE   Peptide #4074 encoded by probe for measuring breast gene expression
XX
KW   Probe; human; breast disease; breast cancer; development disorder;
KW   inflammatory disease; proliferative breast disease; non-carcinoma tumour.
XX
OS   Homo sapiens.
XX
PN   WO200157270-A2.
XX
PD   09-AUG-2001.
XX
PF   29-JAN-2001; 2001WO-US00661.
XX
PR   04-FEB-2000; 2000US-0180412
PR   26-MAY-2000; 2000US-0207456.
PR   30-JUN-2000; 2000US-0608408.
PR   03-AUG-2000; 2000US-0632366
PR   21-SEP-2000; 2000US-0234687
PR   27-SEP-2000; 2000US-0236359.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2001-476286/51.
XX
PT   Novel single exon nucleic acid probe used to measuring gene expression
PT   in a human breast -
XX
PS   Claim 27; SEQ ID No 14142; 322pp; English.
XX
CC   The present invention relates to novel single exon nucleic acid probes
CC   (see AAI00010-AAI10067). The present sequence is a peptide encoded by one
CC   such probe. The probes are useful for measuring human gene expression in
CC   a human breast sample, where the probe hybridises at high stringency to a
CC   nucleic acid expressed in the human breast. The probes are useful for
CC   predicting, diagnosing, grading, staging, monitoring and prognosing
CC   diseases of the human breast, particularly those diseases with polygenic
CC   aetiology. The diseases include: breast cancer, disorders of development,
CC   inflammatory diseases of the breast, fibrocystic changes, proliferative
CC   breast disease and non-carcinoma tumours.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   29 AA;

  Query Match          100.0%;  Score 24;  DB 22;  Length 29;
  Best Local Similarity  100.0%;  Pred. No. 1e-02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       8 KEELM 12


RESULT 12
ABG39546
ID   ABG39546 standard; Peptide; 29 AA.
XX
AC   ABG39546;
XX
DT   19-AUG-2002  (first entry)
XX
DE   Human peptide encoded by genome-derived single exon probe SEQ ID 29201.
XX
KW   Human; single exon probe; asthma; lung cancer; COPD; ILD;
KW   chronic obstructive pulmonary disease; interstitial lung disease;
KW   familial idiopathic pulmonary fibrosis; neurofibromatosis;
KW   tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
KW   Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
KW   pulmonary histiocytosis; lymphangioleiomyomtosis; Karagener syndrome;
KW   pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
KW   primary ciliary dyskinesis; pulmonary hypertension;
KW   hyaline membrane disease.
XX
OS   Homo sapiens.
XX
PN   WO200186003-A2.
XX
PD   15-NOV-2001.
XX
PF   30-JAN-2001; 2001WO-US00665.
XX
PR   04-FEB-2000; 2000US-180412P.
PR   26-MAY-2000; 2000US-207456P.
PR   30-JUN-2000; 2000US-0608408
PR   03-AUG-2000; 2000US-0632366.
PR   21-SEP-2000; 2000US-234687P.
PR   27-SEP-2000; 2000US-236359P.
PR   04-OCT-2000; 2000GB-0024263.
XX
PA   (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI   Penn SG,  Hanzel DK,  Chen W,  Rank DR;
XX
DR   WPI; 2002-114183/15.
XX
PT   Spatially addressable set of single exon nucleic acid probes, used to
PT   measure gene expression in human lung samples -
XX
PS   Claim 27; SEQ ID No 29201; 634pp; English.
XX
CC   The invention relates to a spatially-addressable set of single exon
CC   nucleic acid probes for measuring gene expression in a sample derived
CC   from human lung comprising single exon nucleic acid probes having one of
CC   12614 nucleic acid sequences mentioned in the specification, or their
CC   complements or the 12387 open reading frames derived from the 12614
CC   probes. Also included are a microarray comprising the novel set of
CC   probes; the novel set of probes which hybridise at high stringency to a
CC   nucleic acid expressed in the human lung, measuring gene expression in a
CC   sample derived from human lung, comprising (a) contacting the array with
CC   a collection of detectably labeled nucleic acids derived from human lung
CC   mRNA, and (b) measuring the label detectably bound to each probe of
CC   the array; identifying exons in a eukaryotic genome, comprising
CC   (a) algorithmically predicting at least one exon from genomic sequences
CC   of the eukaryote; and (b) detecting specific hybridisation of detectably
CC   labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
CC   having a fragment identical to the predicted exon, the probe is included
CC   in the above mentioned microarray; assigning exons to a single gene,
CC   comprising (a) identifying exons from genomic sequence by the method
CC   above and (b) measuring the expression of each of the exons in several
CC   tissues and/or cell types using hybridisation to a single exon
CC   microarrays having a probe with the exon, where a common pattern of
CC   expression of the exons in the tissues and/or cell types indicates that
CC   the exons should be assigned to a single gene; a peptide comprising one
CC   of 12011 sequences, mentioned in the specification, or encoded by the
CC   probes/open reading frames (ORF). The probes are used for gene
CC   expression analysis, and for identifying exons in a gene, particularly
CC   using human lung derived mRNA and for the study of lung diseases
CC   such as asthma, lung cancer, chronic obstructive pulmonary disease
CC   (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
CC   fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
CC   Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
CC   haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomtosis,
CC   pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic
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CC   pulmonary dysplasia, primary ciliary dyskinesis, pulmonary hypertension
CC   and hyaline membrane disease. The present sequence is a peptide/protein
CC   encoded by a single exon probe of the invention
CC   Note: The sequence data for this patent did not form part
CC   of the printed specification, but was obtained in electronic
CC   format directly from WIPO at
CC   ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   29 AA;

  Query Match             100.0%;  Score 24;  DB 23;  Length 29;
  Best Local Similarity   100.0%;  Pred. No. 1e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       8 KEELM 12


RESULT 13
AAB82020
ID   AAB82020 standard, peptide, 34 AA.
XX
AC   AAB82020;
XX
DT   13-JUN-2001  (first entry)
XX
DE   Human hepreceptor domain B
XX
KW   Human; hepreceptor domain B; cytostatic; anti-HIV; antibiotic;
KW   nootropic; immune response inducer; ezrin; infectious diseases, cancer,
KW   HIV-related dementia.
XX
OS   Homo sapiens.
XX
FH   Key             Location/Qualifiers
FT   Modified-site   14
FT                   /note= "Optionally phosphorylated"
XX
PN   GB2354241-A.
XX
PD   21-MAR-2001.
XX
PF   17-SEP-1999;   99GB-0021881.
XX
PR   17-SEP-1999;   99GB-0021881.
XX
PA   (HOLM/) HOLMS R D.
XX
PI   Holms RD;
XX
DR   WPI; 2001-293287/31.
XX
PT   Novel regulatory or unfolding peptides of ezrin that binds to
PT   Hepreceptor, useful for inducing immune response for treating
PT   infectious diseases and cancer -
XX
PS   Claim 5, Page 36; 42pp, English
XX
CC   The present sequence is domain B of human hepreceptor of human ezrin. The
CC   hepreceptor is a novel active site in human ezrin. Ezrin regulates the
CC   structure of the cortical cytoskeleton to control cell surface
CC   topography. The present invention relates to peptides (see AAB82021 to
CC   AAB82041) that bind to hepreceptor with greater affinity than HEP1 (see
CC   AAB82046). The hepreceptor binding peptides are useful for inducing
CC   immune response, and for treating infectious diseases, cancer and
CC   HIV-related dementia. The present sequence assembles into two
CC   anti-parallel helices with hepreceptor domain A (see AAB82019).
XX
SQ   Sequence   34 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 34;
  Best Local Similarity   100.0%;  Pred. No. 1.2e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db       4 KEELM 8


RESULT 14
AAU33060
ID   AAU33060 standard; Protein; 52 AA.
XX
AC   AAU33060;
XX
DT   18-DEC-2001  (first entry)
XX
DE   Novel human secreted protein #3551.
XX
KW   Human; vaccination; gene therapy; nutritional supplement;
KW   stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW   immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200179449-A2.
XX
PD   25-OCT-2001.
XX
PF   16-APR-2001; 2001WO-US08656.
XX
PR   18-APR-2000; 2000US-0552929.
PR   26-JAN-2001; 2001US-0770160.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Drmanac RT;
XX
DR   WPI; 2001-611725/70.
XX
PT   Nucleic acids encoding a range of human polypeptides, useful in genetic
PT   vaccination, testing and therapy -
XX
PS   Claim 20; Page 702; 765pp; English.
XX
CC   The invention relates to novel human secreted polypeptides. The
CC   polypeptides and antibodies to the polypeptides are useful for
CC   determining the presence of or predisposition to a disease associated
CC   with altered levels of polypeptide. The polypeptides are also useful for
CC   identifying agents (agonists and antagonists) that bind to them. Cells
CC   expressing the proteins are useful for identifying a therapeutic agent
CC   for use in treatment of a pathology related to aberrant expression or
CC   physiological interactions of the polypeptide. Vectors comprising
CC   the nucleic acids encoding the polypeptides and cells genetically
CC   engineered to express them are also useful for producing the proteins.
CC   The proteins are useful in genetic vaccination, testing and
CC   therapy, and can be used as nutritional supplements. They may be used to
CC   increase stem cell proliferation; to regulate haematopoiesis; and in
CC   bone, cartilage, tendon  and/or nerve tissue growth or regeneration;
CC   immune suppression and/or stimulation; as anti inflammatory agents; and
CC   in treatment of leukaemias. AAU29510-AAU33604 represent the amino acid
CC   sequences of novel human secreted proteins of the invention.
XX
SQ   Sequence   52 AA;

  Query Match             100.0%;  Score 24;  DB 22;  Length 52;
  Best Local Similarity   100.0%;  Pred. No. 1.8e+02;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 KEELM 5
           |||||
Db      12 KEELM 16


RESULT 15
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AAG60550
ID   AAG60550 standard; Protein; 56 AA.
XX
AC   AAG60550;
XX
DT   18-OCT-2000  (first entry)
XX
DE   Arabidopsis thaliana protein fragment SEQ ID NO: 78439.
XX
KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
XX
OS   Arabidopsis thaliana.
XX
PN   EP1033405-A2.
XX
PD   06 SEP 2000.
XX
PF   25-FEB-2000; 2000EP 0301439.
XX
PR   25-FEB-1999;   99US-0121825.
PR   05-MAR-1999;   99US-0124180.
PR   09-MAR-1999;   99US-0124548.
PR   23-MAR-1999;   99US-0125788.
PR   25-MAR-1999;   99US-0126264.
PR   29-MAR-1999;   99US-0126785.
PR   01-APR-1999;   99US-0127462.
PR   06-APR-1999;   99US-0128234.
PR   08-APR-1999;   99US-0128714.
PR   16-APR-1999;   99US-0129845.
PR   19-APR-1999;   99US-0130077.
PR   21-APR-1999;   99US-0130449.
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PR 31-AUG-1999; 99US-0151438.
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PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 100.0%; Score 24; DB 21; Length 56;
Best Local Similarity 100.0%; Pred. No. 2e-02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      10 KEELM 14
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